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behind each of these three is a black point; the discal spots repeated; in cell three spots, and two on costal margin.

Female: Expands 1.25 inch.

Color lighter, more yellowish; margins bordered as in male; all spots as in male, but larger; two spots at end of cell on secondaries.

Under side as in male, but there is a third spot in cell of primaries near base; on secondaries there are three distinct spots in line across basal area, and three parallel to these a little beyond, besides two at end of cell—in all eight spots within the discal row.

From two males and one female, taken by Prof. F. H. Snow, above timber line on Gray's Peak, Colorado.

This species is nearest *Cupreus* Edw., but differs in several respects, and partakes of the character of some other American species. It is larger than *Cupreus* (known to me only from Oregon and California). The color of male is almost same as in *Americana*, and in the broad marginal borders there is another point of resemblance; the spots are disposed nearly as in *Cupreus*, but the rows are less regular; so too the color of under side is like *Cupreus*, but the spots are not edged buff, and instead of a complete series of orange spots across secondaries within the margin (much as in *Americana*, only here the spots are confluent), Snowi has a series of black spots, one only being almost concealed by orange.

LIST OF COLEOPTERA COLLECTED IN SANTA FE CANON, NEW MEXICO.

By the Kansas University Expedition For 1880.

By. Prof. F. H. Snow.

The camp in the vicinity of which the 237 species of Coleoptera in the following list were collected was situated eight miles from the city of Santa Fe, at an elevation of 7,000 feet above the level of the sea. The party was in the field for four weeks, from August 6th to September 3d, and consisted of the family of the writer, together with Mr. Louis L. Dyche and Miss Annie E. Mozley—students of the University of Kansas. My son and daughter, Willie and Mattie, eleven and ten years of age, obtained several species not collected by the other members of the party. Among the new species discovered was a large and polished *Onthophagus*, of which Dr. Le Conte writes that it is "the most extraordinary addition to our fauna discovered for a long time." Three specimens were obtained of the rare and curious *Amphizoa Le Conte*, a species which had not previously been detected within the limits of the United States.

Drs. Le Conte and Horn, to whom I am indebted for many favors in the determination of species, have kindly furnished descriptions of that portion

of the new species which could be published separately without confusion to science.

The conspicuous scarcity in Santa Fe canon of Chrysomelids and some other families of beetles, as well as of the Lepidoptera, both diurnal and nocturnal, is probably due to the very numerous flocks of sheep and goats, which destroy the food plants of these insects.

LIST OF COLEOPTERA.

CICINDELIDÆ.	
12. <i>Cicindela longilabris</i> Say.	1062. <i>Bembidium lugubre</i> Lec.
28. <i>Cicindela vulgaris</i> Say.	1063. <i>Bembidium striola</i> Lec.
30b. <i>Cicindela guttifera</i> Lec.	1065. <i>Bembidium bimaculatum</i> Kirby.
51. <i>Cicindela punctulata</i> Fab.	—. <i>Bembidium n. sp.</i>
51a. <i>Cicindela micans</i> Fab.	1067. <i>Bembidium lucidum</i> Lec.
CARABIDÆ.	1072. <i>Bembidium picipes</i> Kirby.
72. <i>Omophron americanum</i> Dej.	1097. <i>Bembidium intermedium</i> Kirby.
116. <i>Nebria obliqua</i> Lec.	1114. <i>Bembidium connivens</i> Lec.
155. <i>Carabus serratus</i> Say.	1116. <i>Bembidium assimile</i> Gyll.
160. <i>Carabus tædatus</i> Fab.	1119. <i>Bembidium quadrimaculatum</i> Linn.
173. <i>Cychrus elevatus</i> Fab.	1143. <i>Tachys nanus</i> Gyll.
—. <i>Cychrus Snowi</i> Lec. n. sp. (See description by Dr. Leconte, at end of this list.)	1156. <i>Tachys incurvus</i> Say.
200. <i>Passimachus elongatus</i> Lec.	AMPHIZOIDÆ.
220. <i>Dyschirius globulosus</i> Say.	1171. <i>Amphizoa Lecontei</i> Matth.
380. <i>Metabletus americanus</i> Dej.	DYTISCIDÆ.
397. <i>Cymindis laticollis</i> Say.	1210. <i>Hydroporus nubilus</i> Lec.
399. <i>Cymindis abstrusa</i> Lec.	1227. <i>Hydroporus obesus</i> Lec.
428. <i>Calathus ingratius</i> Dej.	1229. <i>Hydroporus striatellus</i> Lec.
436. <i>Calathus dubia</i> Lec.	1261. <i>Hydroporus vilis</i> Lec.
457. <i>Platynus sinuatus</i> Dej. var.	1279. <i>Laccophilus proximus</i> Say.
—. <i>Platynus nivalis</i> Horn, n. sp. (See description by Dr. Horn, at the end of this list.)	1281. <i>Laccophilus decipiens</i> Lec.
481. <i>Platynus cupripennis</i> Say.	1347. <i>Rhantus binotatus</i> Harr.
514. <i>Platynus placidus</i> Say.	1334. <i>Ilybius biguttatus</i> Germ.
581. <i>Pterostichus protractus</i> Lec.	1342. <i>Ilybiosoma regularis?</i> Lec.
7522. <i>Pterostichus longulus</i> Lec.	—. <i>Gaurodytes Austinii</i> Lec.
638. <i>Pterostichus Luczotii</i> Dej.	1351. <i>Gaurodytes semipunctatus</i> Kirby.
685. <i>Amara latior</i> Kirby.	1363. <i>Gaurodytes intersectus</i> Cr.
701. <i>Amara confusa</i> Lec.	1375. <i>Gaurodytes tristis</i> Aube.
704. <i>Amara erratica</i> Sturm.	1379. <i>Gaurodytes lugens</i> Lec.
705. <i>Amara lævipennis</i> Kirby.	1381. <i>Anisomera cordata</i> Lec.
711. <i>Amara terrestris</i> Lec.	HYDROPHILIDÆ.
713. <i>Amara remotestriata</i> Dej.	—. <i>Hydraena n. sp. (?)</i>
819. <i>Piosoma setosum</i> Lec.	1450. <i>Tropisternus nimbatis</i> Say.
894. <i>Bradyceillus nigrinus</i> Dej.	1453. <i>Tropisternus Californicus</i> Lec.
917. <i>Selenophorus troglodytes</i> Dej.	1455. <i>Tropisternus glaber</i> Hb.
925. <i>Harpalus retractus</i> Lec.	1457. <i>Tropisternus ellipticus</i> Lec.
926. <i>Harpalus amputatus</i> Say.	1481. <i>Laccobius ellipticus</i> Lec.
933. <i>Harpalus compar</i> Lec.	1489. <i>Philhydrus nebulosus</i> Say.
940. <i>Harpalus herbivagus</i> Say.	1497. <i>Philhydrus diffusus</i> Lec.
945. <i>Harpalus ellipsis</i> Lec.	1504. <i>Philhydrus fimbriatus</i> Mels.
950. <i>Harpalus montanus</i> Lec.	1507. <i>Hydrobius fuscipes</i> Linn.
955. <i>Harpalus funestus</i> Lec.	1511. <i>Hydrobius scabrosus</i> Horn.
959. <i>Harpalus ochropus</i> Kirby.	1514. <i>Hydrobius infuscatus</i> Mots.
976. <i>Stenolophus conjunctus</i> Say.	1516. <i>Hydrobius subcupreus</i> Say.
1015. <i>Trechus chalybeus</i> Mann.	STAPHYLINIDÆ.
1059. <i>Bembidium transversale</i> Dej.	—. <i>Homalota</i> Sp. (?)
	—. <i>Placusa</i> Sp. (?)
	1647. <i>Tachysa nigrella</i> Lec.
	1662. <i>Aleochara bimaculata</i> Grav.
	—. <i>Aleochara</i> Sp.
	—. <i>Tachinus</i> Sp. (?)

<p>1749. <i>Heterothops fumigatus</i> Lec.</p> <p>1752. <i>Quedius explanatus</i> Lec.</p> <p>1771. <i>Creophilus villosus</i> Grav.</p> <p>1782. <i>Staphylinus fossator</i> Grav.</p> <p>1804. <i>Philonthus californicus</i> Mann.</p> <p>1815. <i>Philonthus scybaliarius</i> Nord.</p> <p>1816. <i>Philonthus debilis</i> Grav.</p> <p>—. <i>Philonthus triangulum</i> Fauv.</p> <p>7769. <i>Dianous nitidulus</i> Lec.</p> <p>7788. <i>Oxyporus occipitalis</i> (?) Fauv.</p> <p>1972. <i>Bledius ornatus</i> Lec.</p> <p>1988. <i>Platystethus americanus</i> Er.</p> <p>1991. <i>Oxytelus fuscipennis</i> Mann.</p> <p>—. <i>Trogophloeus</i> Sp. (?)</p> <p>7841. <i>Geodromicus ovipennis</i> Lec.</p> <p style="text-align: center;">SILPHIDÆ.</p> <p>2176. <i>Necrophorus marginata</i> Fab.</p> <p>2178a. <i>Necrophorus Hecate</i> Bland.</p> <p>2188. <i>Silpha laponica</i> Hb.</p> <p>2194. <i>Silpha truncata</i> Say.</p> <p style="text-align: center;">DERMESTIDÆ.</p> <p>2392. <i>Dermestes marmoratus</i> Say.</p> <p>2404. <i>Dermestes maculatus</i> Deg.</p> <p>2434a. <i>Orphilus subnitidus</i> Lec.</p> <p style="text-align: center;">ENDOMYCHIDÆ.</p> <p>2441. <i>Mycetina morosa</i> Lec.</p> <p style="text-align: center;">EROTYLIDÆ.</p> <p>2541. <i>Cypherothylus Boisduvali</i> Chev.</p> <p style="text-align: center;">COLYDIIDÆ.</p> <p>8019. <i>Bothrideres montanus</i> Horn.</p> <p style="text-align: center;">TROGOSITIDÆ.</p> <p>2688. <i>Tenebrioides corticalis</i> Meis.</p> <p>2698. <i>Ostoma Pippingskoeldi</i> Mann.</p> <p style="text-align: center;">NITIDULIDÆ.</p> <p>2729. <i>Carpophilus pallipennis</i> Say.</p> <p>2667. <i>Meligethes ruficornis</i> Lec.</p> <p>2772. <i>Perthalyra Murrayi</i> Cr.</p> <p style="text-align: center;">CONCINELLIDÆ.</p> <p>2832. <i>Hippodamia convergens</i> Guer.</p> <p>2848. <i>Coccinella 5-notata</i> Kirby.</p> <p>2853. <i>Cycloneda sanguinea</i> Linn.</p> <p>2864. <i>Anatis subvitata</i> Muls.</p> <p style="text-align: center;">CISTELIDÆ.</p> <p>8092. <i>Limnichus analis</i> Lec.</p> <p style="text-align: center;">ELMIDÆ.</p> <p>—. <i>Elmis concolor</i> Lec. n. sp. See description by Dr. Le Conte, at the end of the list.</p> <p>8087. <i>Elmis divergens</i> Lec.</p> <p style="text-align: center;">PARNIDÆ.</p> <p>1977. <i>Helichus striatus</i> Lec.</p> <p style="text-align: center;">HISTERIDÆ.</p> <p>3049. <i>Hister abbreviatus</i> Fab.</p>	<p>3053. <i>Hister depurator</i> Say.</p> <p>3134. <i>Saprinus oregonensis</i> Lec.</p> <p>3158. <i>Saprinus fimbriatus</i> Lec.</p> <p>8119. <i>Teretrius montanus</i> Horn.</p> <p style="text-align: center;">LUCANIDÆ.</p> <p>3205. <i>Lucanus mazama</i> Linn.</p> <p>3210. <i>Platycerus depressus</i> Lec.</p> <p style="text-align: center;">SCARABÆIDÆ.</p> <p>3219. <i>Canthon praticola</i> Lec.</p> <p>—. <i>Onthophagus coprodes</i> Horn. n. sp. See description by Dr. Horn, at the end of this list.</p> <p>3247. <i>Onthophagus Hecate</i> Fabr.</p> <p>3255. <i>Aphodius hyperboreus</i> Lec.</p> <p>3261. <i>Aphodius crassulus</i> Horn.</p> <p>3262. <i>Aphodius ursinus</i> Mots.</p> <p>3263. <i>Aphodius ruricola</i> Meis.</p> <p>3269. <i>Aphodius vittatus</i> Say.</p> <p>—. <i>Aphodius</i> n. sp. near <i>pectoralis</i> Lec.</p> <p>—. <i>Rhyssenus cælatus</i> Lec. n. sp. See description by Dr. Le Conte at the end of this list.</p> <p>3381. <i>Trox alternans</i> Lec.</p> <p>3394. <i>Trox atrox</i> Lec.</p> <p>3456. <i>Diplotaxis brevicollis</i> Lec.</p> <p>3560. <i>Listrochelus falsus</i> Lec.</p> <p>3615. <i>Aphonus tridentatus</i> (?) Say. Determined from a single elytron found among the debris on the banks of the Santa Fe river.</p> <p>3619. <i>Aphonus clunalis</i> Lec.</p> <p>3646. <i>Euphoria inda</i> Linn.</p> <p>3659. <i>Cremastochilus Knochii</i> Lec.</p> <p style="text-align: center;">BUPRESTIDÆ.</p> <p>3718. <i>Buprestis maculiventris</i> Say.</p> <p>3722. <i>Buprestis lauta</i> Lec.</p> <p>3734. <i>Melanophila Drummondi</i> Kirby. Var.</p> <p>3747. <i>Chrysobothris femorata</i> Lec.</p> <p>3756. <i>Chrysobothris trinervia</i> Kirby.</p> <p>3790. <i>Acmaeodera ornata</i> Fab.</p> <p>3791. <i>Acmaeodera puchella</i> Hbst.</p> <p style="text-align: center;">ELATERIDÆ.</p> <p>3902. <i>Anelastes Drurii</i> Kirby.</p> <p>3953. <i>Cardiophorus longior</i> Lec.</p> <p>8258. <i>Athous cribratus</i> Lec.</p> <p>3983. <i>Cryptohypnus bicolor</i> Esch.</p> <p>3995. <i>Cryptohypnus pectoralis</i> Say.</p> <p>4297. <i>Corymbites rupestris</i> Germ.</p> <p style="text-align: center;">LAMPYRIDÆ.</p> <p>8293. <i>Dictyoptera ruficollis</i> Lec.</p> <p>—. <i>Caenia</i> sp.</p> <p>4450. <i>Photinus corruscus</i> Linn.</p> <p style="text-align: center;">TELEPHORIDÆ.</p> <p>4482. <i>Chauliognathus scutellaris</i> Lec.</p> <p style="text-align: center;">MALACHIDÆ.</p> <p>4582. <i>Collops bipunctatus</i> Say.</p> <p>4584. <i>Collops 4-maculatus</i> Fab. var.</p>
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4628. <i>Attalus morulus</i> Lec.	ALLEGULIDÆ.
—. <i>Pristoscelis comatus</i> Lec. n. sp. See description by Dr. Le Conte at the end of this list.	6375. <i>Hymenororus obscurus</i> Say.
	8643. <i>Mycetochares lugubris</i> Lec.
	OTHNIIDÆ.
	6404. <i>Othnius umbrosus</i> Lec.
	ANTHICIDÆ.
4720. <i>Trichodes apivorus</i> Germ.	6479. <i>Anthicus floralis</i> Payk.
—. <i>Clerus</i> n. sp.	MELANDRYIDÆ.
—. <i>Lebasiella discoidea</i> Lec. See description by Dr. Le Conte at the end of this list.	6552. <i>Zilora hispida</i> Lec.
4789. <i>Corynetes rufipes</i> Fabr.	6555. <i>Serropalpus striatus</i> Helen.
	6563. <i>Hallomenus punctulatus</i> Lec.
	MORDELLIDÆ.
4809. <i>Ptinus interruptus</i> Lec.	6579. <i>Anaspis nigra</i> Hald.
	6558. <i>Mordellistena angusta</i> Lec.
	MELOIDÆ.
	—. <i>Meloe</i> near <i>rugipennis</i> Lec.
4931. <i>Criocephalus productus</i> Lec.	6803. <i>Zonitis atripennis</i> Say.
5051. <i>Rhopalophora longipes</i> Say.	6804. <i>Zonitis flavida</i> Lec.
—. <i>Rhopalophora longipes</i> Say, var. A singular variety in which the prothorax is black instead of red. It is suggested by Dr. Le Conte that this difference in color is perhaps the result of disease.	6808. <i>Nemognatha bicolor</i> Lec.
5068a. <i>Tragidion fulvipenne</i> Say.	6809. <i>Nemognatha lurida</i> Lec.
5120. <i>Zylotrechus undulatus</i> Say.	—. <i>Nemognatha lurida</i> var.
5321. <i>Monohammus maculosus</i> Hald.	6824. <i>Nemognatha cribalaria</i> Lec.
5377. <i>Acanthocinus obliquus</i> Lec.	6825. <i>Nemognatha immaculata</i> Say.
5378. <i>Acanthocinus spectabilis</i> Lec.	OEDEMERIDÆ.
5388. <i>Pogonocherus mixtus</i> Hald.	—. <i>Ditylus</i> undetermined species.
	OTIORHYNCHIDÆ.
	8785. <i>Peritaxia rugicollis</i> Horn.
	8833. <i>Pandeleteius hilaris</i> Hbst.
	CURCULIONIDÆ.
5668. <i>Zanthonia 10-notata</i> Say.	8850. <i>Cleonus</i> near <i>frontalis</i> Lec.
5672. <i>Heteraspis marcassita</i> Germ.	8993. <i>Dorytomus brevicollis</i> Lec.
5831. <i>Monoxia guttulata</i> Lec.	9067. <i>Magdalis cuneiformis</i> Horn.
5875. <i>Graptodera plicipennis</i> Mann.	9405. <i>Balaninus uniformis</i> Lec.
5942. <i>Chaetocnema denticulata</i> Ill.	CALANDRIDÆ.
	9425. <i>Sphenophorus Ulkei</i> Horn.
	9467. <i>Cossonus concinnus</i> Boh.
	9485. <i>Rhyncolus brunneus</i> Mannh.
	—. <i>Rhyncolus</i> undetermined species.
	SCOLYTIDÆ.
	—. <i>Platypus</i> n. sp.
6010. <i>Epitragus canaliculatus</i> Say.	9619. <i>Dendroctonus terebrans</i> Oliv.
6068. <i>Asida opaca</i> Say.	9589. <i>Scolytus Californicus</i> Lec.
6127a. <i>Eleodes dispersa</i> Lec.	9637. <i>Hylastes gracilis</i> Lec.
6134. <i>Eleodes quadricollis</i> Esch.	9643. <i>Hylurgops rugipennis</i> Mannh.
6137. <i>Eleodes extricata</i> Say.	
6149. <i>Eleodes nigrina</i> Lec.	
6161. <i>Eleodes consobrina</i> Lec.	
6163. <i>Eleodes planipennis</i> Lec.	
6202. <i>Iphimus serratus</i> Mann.	
6244. <i>Blapstinus pratensis</i> Lec.	
—. <i>Platydema</i> , undetermined species.	

SUMMARY OF SPECIES.

Cicindelidæ	4	Endomychidæ	1
Carabidæ	52	Erotylidæ	1
Amphizoidæ	1	Colydiidæ	1
Dytiscidæ	15	Trogositidæ	2
Hydrophilidæ	13	Nitidulidæ	3
Staphylinidæ	21	Coccinellidæ	4
Silphidæ	4	Cistelidæ	1
Dermestidæ	3	Elmidæ	2
		Parnidæ	1

Histeridæ	5	Alleculidæ	2
Lucanidæ	2	Othniidæ	1
Scarabæidæ	18	Anthicidæ	1
Buprestidæ	7	Melandryidæ	3
Elateridæ	6	Mordellidæ	2
Lampyridæ	3	Meloidæ	8
Telephoridæ	1	Oedemeridæ	1
Malachidæ	4	Otiorhynchidæ	2
Cleridæ	4	Circuloniidæ	4
Ptinidæ	1	Calandridæ	4
Cerambycidæ	8	Scolytidæ	5
Chrysomelidæ	5		
Tenebrionidæ	11	Total: families, 41; species.....	237

DESCRIPTIONS OF NEW SPECIES OF NORTH AMERICAN COLEOPTERA.

By Dr. Jno. L. Le Conte and Dr. Geo. H. Horn, of Philadelphia.

1. *Cychrus* (*Scaphinotus*) *Snowi* Lee. Black, without purple tinge. Head impunctured. Prothorax densely punctured, about one-third wider than long. Sides thickened and reflexed, more widely towards the base, which is strongly emarginate in an arc of a circle; tip also emarginate, but less deeply; dorsal line well impressed, transverse impressions deep, basal impressions indistinct, lost in the concavity produced by the reflexed margin. Elytra suboval, not dilated behind, lateral margin strong, wider about the humeri, which are rounded; striæ 14 or 15, distinctly impressed except the outer ones, which are confused; punctures of the striæ deep, distant a little more than their diameter. Flanks of prothorax not punctured; epipleuræ, sides of meso- and metathorax, and first ventral segments coarsely punctured. Length 9 mm.

One male. The front tarsi have the joints 1-3 moderately dilated, and spongy pubescent beneath over the whole surface, as in *C. Andrewsii*. This is a very singular species; the sides of the prothorax are thicker than in any other, and nearly as widely reflexed towards the base, as in *C. elevatus*, though the hind angles are not prolonged, nor is the humeral margin of the elytra as wide: the tarsi, as just stated, are as in *C. Andrewsii*, while the punctured prothorax distinguishes it at first sight from all the other species of the group. Collected in Santa Fe canon, New Mexico, (altitude, 7,000 feet,) by the Kansas University Scientific Expedition for 1880.

2. *Platynus nivalis* Horn. Slender, elongate, piceous, moderately shining. Head narrow, eyes not prominent. Antennæ nearly half as long as the body. Thorax elongate oval, narrower at base, sides in front arcuate, posteriorly slightly sinuate, hind angles obtuse but distinct, margin narrowly reflexed, disc slightly convex, median line moderately impressed, basal impressions feeble and with the lateral margin slightly punctured. Elytra elongate oval, humeri rounded, apex sinuate, suture at tip slightly